



## **SIP IP Phone**

# **VIP-155PT User's manual**

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# Chapter 1

## Introduction

### Overview

Meeting the next-generation Internet telephony service demands, PLANET Technology provides feature-rich, toll-quality Internet telephony service solutions. The 802.3af Power over Ethernet (PoE) IP Phone - VIP-155PT brings cost-effective solution for voice communications and interoperates VoIP hardware and systems from major third party vendors with traditions of PLANET VoIP family. As a feature-rich IP Phone, the VIP-155PT fulfills your needs. The VIP-155PT is SIP 2.0 (RFC3261) compliant with SIP digest authentication supports. And the VIP-155PT is the cost-effective SIP PoE IP Phone.

The VIP-155PT feature high-quality speakerphone technology; also include an easy-to-use speaker on/off button and call hold/transfer buttons for various voice services. These features go beyond the conventional voice systems nowadays, and the PoE IP phones are cost-effective solution for Internet Telephony Service Provider (ITSPs) communications and interoperate VoIP hardware and systems from othe major third party vendors with the traditions of PLANET VoIP family.

As feature-rich IP Phones, the VIP-155PT fulfill your needs. They are simple to use, and have additional features such as built-in PPPoE/DHCP clients, password-protected machine management, large LCD menu display, hands-free speakerphone, last number redial, incoming message indicator, and user-intuitive web administration system.

The VIP-155PT are self-contained, service-integrated IP phones — offers intelligent phone features, and powerful voice processing power. The VIP-155PT can effortlessly deliver toll voice quality equivalent to the regular PSTN connections utilizing cutting-edge Quality of Service, echo cancellation, comfort noise generation and voice compensation technology. Meanwhile, the dual Ethernet interfaces on the VIP-155PT allow users to install in an existing network location without interfering with desktop PC network connections. The new VIP-155PT deliver more convenience, efficiency, innovation and benefits of VoIP in your daily life.

### VIP-155PT Functions

- **Simple Installation and administration**

Configuration of the VIP-155PT can be performed in minutes via the keypad, or web interfaces. Using the built-in LCD display, the VIP-155PT offers user-friendly configuration guidelines, machine operation status, call status displays, and incoming call identification.

- **Feature-rich keypad IP Phone**

The VIP-155PT integrates a high-quality speakerphone with the Call Hold, Forward and Transfer functions and also provides advanced telephone features, such as 9 speed-dial keys, last number redial, incoming call history, Auto Answer indicator in a much more convenient and functional manner than traditional telephone sets.

- **Dynamic IP address assignment, and voice communication**

The VIP-155PT can act as a PPPoE/DHCP client, automatically obtaining an IP address for Internet access.

- **Various field applications compliant**

The VIP-155PT is capable of handling both peer-to-peer and SIP proxy registration, authentication to interact with major SIP gateway/IP Phone in the market. The VIP-155PT offers the most flexibility and interoperability with PLANET and 3rd party VoIP vendors, allowing the deployment of both simple and complex VoIP networks such as ITSP, PC-to-Phone/Phone-to-PC or enterprise VoIP environments.

- **Standards compliant**

The VIP-155PT complies with SIP 2.0 (RFC3261), interoperates with 3rd party SIP voice gateways/terminal/software as well as other PLANET VoIP products. Supported Voice codecs and VoIP technologies are: G.723, G.729ab, G.711u-law/a-law; Voice Activity Detection (VAD), and the Confort Noise Generation (CNG).

- **NAT Optimization, Firewall policy packet filtering and QoS mechanism**

The VIP-155PT provides user definable policy-based firewall protection, and a packet filtering mechanism to prevent business or residential network from malicious attacks or intrusion. The firewall policy offers VoIP administrators access control privilege choices to apply to LAN users to restrict Internet access or prevent improper use.

## Package Content

The contents of your product should contain the following items:

IP Phone

Power adapter

Quick Installation Guide

User's Manual CD

RJ-45 cable x 1

## Physical Details

The following figure illustrates the front/rear panel of VIP-155PT.

### Front View and Keypad function



Front Panel of VIP-155PT

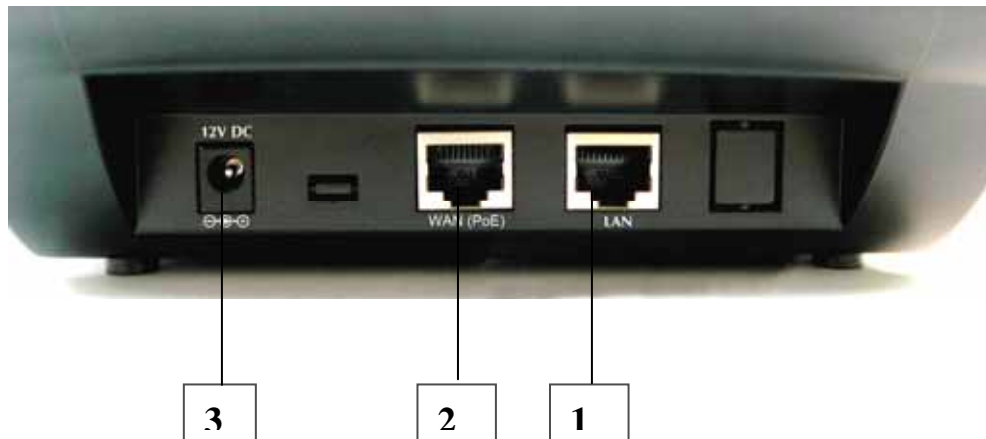
### Keypad Description

1	<b>LCD Display</b>	Menu and all status shall be displayed for users.
2	<b>Speed Dial No.1~No.9</b>	To make a speed dial call by pressing the speed dial key No.1 ~ No.9.
3	<b>Sysinfo</b>	Circularly show phone number, wan ip, registration status, server ip address, gateway and mask info.
4	<b>Out call</b>	Show the outgoing calls history.
5	<b>FWD</b>	To transfer an active call (incoming call answered or outgoing call accepted) to another IP phone.
6	<b>Send</b>	After complete dial digits, press this button to make call.



<b>7</b>	<b>Redial</b>	Press to dial the last dialed number when the IP Phone is off-hooked.
<b>8</b>	<b>PWR</b>	The green light goes on when power on.
<b>9</b>	<b>Message</b>	The green light goes on-off when there is an incoming call. The light goes constant on when there have voice message (Proxy Mode.)
<b>10</b>	<b>Handfree</b>	To switch between the usage of the handset and the speaker devices.
<b>11</b>	<b>Vol+</b>	To increase the volume of voice when at off-hooked state. To page up menu when at configuration mode.
<b>12</b>	<b>Mute</b>	Press to mute sounds when at talk mode.
<b>13</b>	<b>Menu/OK</b>	To bring out the menu selection while IP Phone is in idle state. To be used as confirm configuration or enter sub-menu.
<b>14</b>	<b>Modify</b>	Press to modify the configuration.
<b>15</b>	<b>Exit</b>	To escape to an upper layer menu selection.
<b>16</b>	<b>Up</b>	To increase the volume of voice when at off-hooked state. To page up menu when at configuration mode.
<b>17</b>	<b>Down</b>	To decrease the volume of voice when at off-hooked state. To page down menu when at configuration mode.
<b>18</b>	<b>In call</b>	Show the incoming calls history.
<b>19</b>	<b>Pbook</b>	Enter the phone book selection.
<b>20</b>	<b>Record</b>	Enter the Voice Record selection.
<b>21</b>	<b>Hold</b>	To hold the conversation.
<b>22</b>	<b>Vol-</b>	To decrease the volume of voice when at off-hooked state. To page down menu when at configuration mode.
<b>23</b>	<b>Del</b>	Delete digits when at Calling and Configuration modes.

## Rear View



Rear Panel of VIP-155PT

1	LAN	RJ-45 connector, to maintain the existing network structure, connected directly to the <b>PC</b> through <b>straight</b> CAT-5 cable
2	WAN (PoE)	RJ-45 connector, for Internet access, connected directly to <b>Switch/Hub</b> through <b>straight</b> CAT-5 cable. Please connect the WAN interface when using IEEE802.3af PoE power supply ( <b>PT</b> model only)
3	12V DC	12V DC Power input outlet

### Hint

- The Power over Ethernet support on PLANET VIP-155PT complies with the 802.3af standards. Using non-802.3af compliant PoE device will burn up the VIP-155PT permanently.
- Either one power-source is allowed. Please make sure only one power source is applied to the VIP-155PT.

## Chapter 2

# Preparations & Installation

### Physical Installation Requirement

This chapter illustrates basic installation of VIP-155PT

- Network cables. Use standard 10/100BaseT network (UTP) cables with RJ45 connectors.
- TCP/IP protocol must be installed on all PCs.

For Internet Access, an Internet Access account with an ISP, and either of a DSL or Cable modem (for WAN port usage)

### Administration Interface

---

PLANET VIP-155PT provides GUI (Web based, Graphical User Interface) for machine management and administration.

### Web configuration access:

To start VIP-155PT web configuration, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Default LAN interface IP address of VIP-155PT is **192.168.0.1**. You may now open your web browser, and insert **192.168.0.1** in the address bar of your web browser to logon VIP-155PT web configuration page.

VIP-155PT will prompt for logon username/password, please enter: **rootn / null (no password)** to continue machine administration.

## SIP Phone Web Management

Username:

Password:



### Note

Please locate your PC in the same network segment (192.168.0.x) of VIP-155PT. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.

### LAN/WAN Interface quick configurations

Nature of PLANET VIP-155PT is an IP Sharing (NAT) device, it comes with two default IP addresses, and default LAN side IP address is "192.168.0.1", default WAN side IP address is "172.16.0.1". You may use any PC to connect to the LAN port of VIP-155PT to start machine administration.



### Hint

In general cases, the LAN IP address is the default gateway of LAN side workstations for Internet access, and the WAN IP of VIP-155PT are the IP address for remote calling party to connect with.

### LAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (default: 192.168.0.1) of VIP in the address bar. After logging on machine with username/password (default: root / null), browse to "Network" --> "LAN Config" configuration menu:

**LAN Configuration**

<input type="checkbox"/> Bridge Mode	
IP 192.168.0.1	Netmask 255.255.255.0
<input checked="" type="checkbox"/> DHCP Service	<input checked="" type="checkbox"/> NAT

If you modify Bridge Mode, IP or Netmask, the device will auto save and reboot!

### Parameter Description

<b>Bridge Mode</b>	Enable this option to switch to bridge mode. VIP-155PT won't assign IP for its LAN port in bridge mode and its LAN and WAN port will be in the same network.
<b>IP address</b>	LAN IP address of VIP-155PT <b>Default: 192.168.0.1</b>
<b>Subnet Mask</b>	LAN IP address of VIP-155PT <b>Default: 255.255.255.0</b>
<b>DHCP Service</b>	Enable DHCP service in LAN port
<b>NAT</b>	Enable NAT function. If Bridge mode is enable, this function will be disabled.

.....

**i** Hint

It is suggested to keep the DHCP server related parameters in default state to keep machine in best performance.

.....

After confirming the modification you've done, Please click on the **Apply** button to make the changes effective, browse to "**Config Manager**" --> "**Save Config**" configuration menu and click "**Save**" button to save configuration.

Then browse to "**System Manage**" --> "**Reboot**" configuration menu and click "**Reboot**" button to save configuration.

### WAN IP address configuration via web configuration interface

Execute your web browser, and insert the IP address (default: **172.16.0.1**) of VIP in the address bar. After logging on machine with username/password (default: **root / null**), browse to "**Network**" --> "**WAN Config**" configuration menu, you will see the configuration screen below:

## WAN Configuration

Active IP	Current Netmask	MAC Address	Current Gateway
192.168.9.10	255.255.255.0	00:09:45:52:9e:30	210.66.155.94

Mac Authenticating Code	<input type="text"/>	Valid MAC
-------------------------	----------------------	-----------

Static
  DHCP
  PPPOE

Static	IP Address	<input type="text" value="172.16.0.1"/>	Netmask	<input type="text" value="255.255.255.0"/>
	Gateway	<input type="text" value="172.16.0.254"/>	DNS Domain	<input type="text"/>
	Primary DNS	<input type="text" value="202.96.134.133"/>	Alternate DNS	<input type="text" value="202.96.128.68"/>

PPPOE Server	<input type="text" value="ANY"/>
Username	<input type="text" value="user123"/>
Password	<input type="password" value="*****"/>

Connection Type	Data required.
Static IP	The ISP will assign IP Address, and related information.
DHCP	Get WAN IP Address automatically; it is no need to configure the DHCP settings.
PPPoE	The ISP will assign PPPoE username / password for Internet access,

### **i** Hint

Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully.  
 If Internet connection cannot be established, please check the physical connection or contact the ISP service staff for support information.

## Chapter 3

# Web Configurations

### Configuring and monitoring your VIP-155PT from web browser

The VIP-155PT integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via standard, web browser, you can configure and check machine status from anywhere around the world.

#### Overview on the web interface of VIP-155PT

With web graphical user interface, you may have:

- ◆ More comprehensive setting feels than traditional command line interface.
- ◆ Provides user input data fields, check boxes, and for changing machine configuration settings
- ◆ Displays machine running configuration

To start VIP-155PT web configuration, you must have one of these web browsers installed on computer for management

- ◆ Netscape Communicator 4.03 or higher
- ◆ Microsoft Internet Explorer 4.01 or higher with Java support

#### Manipulation of VIP-155PT via web browser

##### Log on VIP-155PT via web browser

After TCP/IP configurations on your PC, you may now open your web browser, and input ***http://192.168.0.1*** to logon VoIP gateway web configuration page.

Browse any configuration menu, VIP-155PT will prompt for logon username/password, there are two level accounts for manage:

Account Name	Password	Level Description
<b>root</b>	<b>null</b> (no password)	Administrator user, can manage all of configuration.
<b>guest</b>	<b>guest</b>	General user, just can manage part of configuration.

# IP Phone

- [Current State](#)
- [Network](#)
- [VoIP](#)
- [Advance](#)
- [Dial-peer](#)
- [Config Manage](#)
- [Update](#)
- [System Manage](#)

VIP-155PT main page

## Current State

# IP Phone

---

**Running Status**

**Network**

WAN	Connect Mode	Static	MAC Address	00:09:45:52:9e:30
	IP Address	192.168.1.50	Gateway	192.168.1.50
LAN	IP Address	192.168.10.1	DHCP Server	ON

**VOIP**

SIP	Register Server	196.192.64.119	Proxy Server	196.192.64.119
	Register	ON	State	Unregistered
	Public Outbound	OFF	SIP Stun	OFF

**Phone Number**

Public SIP	2219
Private SIP	

Version: VOIP PHONE v1.0 Sep 18 2006 15:43:47

Current state information	
<b>Network</b>	Shows the WAN and LAN port connecting state and current settings
<b>VOIP</b>	Part show the working state of VoIP, you can see whether IP Phone has registered the public sip server
<b>Phone Number</b>	Shows the public sip and private sip phone numbers



## WAN Config:

**WAN Configuration**

Active IP	Current Netmask	MAC Address	Current Gateway
192.168.1.50	255.255.255.0	00:09:45:52:9e:30	192.168.1.50

Mac Authenticating Code	<input type="text"/>	Valid MAC
-------------------------	----------------------	-----------

Static  
  DHCP  
  PPPOE

<b>Static</b>	IP Address	<input type="text" value="192.168.1.50"/>	Netmask	<input type="text" value="255.255.255.0"/>
	Gateway	<input type="text" value="192.168.1.50"/>	DNS Domain	<input type="text"/>
	Primary DNS	<input type="text" value="192.168.1.1"/>	Alternate DNS	<input type="text" value="202.96.128.68"/>

PPPOE Server	<input type="text" value="ANY"/>
Username	<input type="text" value="user123"/>
Password	<input type="password" value="*****"/>

Three methods are available for Internet Access

Static IP	
<b>Fixed IP User</b>	If you are a leased line user with a fixed IP address, fill out the following items with the information provided by your ISP.
<b>IP Address</b>	check with your ISP provider
<b>Netmask</b>	check with your ISP provider
<b>Default Gateway</b>	check with your ISP provider

DHCP IP	
<b>Dynmaic IP User</b>	If there is DHCP server in your local network, VIP-155PT will automatically obtain WAN port network information from your DHCP server.

PPPoE	
<b>PPPoE User</b>	VIP-155PT will automatically obtain WAN port network information from your ITSP if PPPoE setting and the setup are correct.
<b>PPPoE Server</b>	Enter User Name provided by your ISP
<b>Uasename</b>	Enter Password provided by your ISP
<b>Password</b>	Enter Password to confirm again

## LAN Config

**LAN Configuration**

<input type="checkbox"/> Bridge Mode	
IP <input type="text" value="192.168.10.1"/>	Netmask <input type="text" value="255.255.0.0"/>
<input checked="" type="checkbox"/> DHCP Service	<input checked="" type="checkbox"/> NAT
<input type="checkbox"/> Highest Priority of Voice Quality	

If you modify Bridge Mode, IP or Netmask, the device will auto save and reboot!

Field	Description
<b>Bridge Mode</b>	Enable this option to switch to bridge mode. IP phone won't assign IP for its LAN port in bridge mode and its LAN and WAN port will be in the same network  <i>(This setting won't take effect unless you save the config and reboot the device)</i>
<b>IP address</b>	LAN IP address of VIP-155PT <b>Default: 192.168.0.1</b>
<b>Subnet Mask</b>	LAN IP address of VIP-155PT <b>Default: 255.255.255.0</b>
<b>DHCP Service</b>	Enable DHCP service in LAN port
<b>NAT</b>	Enable NAT

## SIP Config

## SIP[Unregistered] Configuration

Register Server Addr	<input type="text" value="196.192.64.119"/>	Proxy Server Addr	<input type="text"/>
Register Server Port	<input type="text" value="5060"/>	Proxy Server Port	<input type="text"/>
Register Username	<input type="text" value="2219"/>	Proxy Username	<input type="text"/>
Register Password	<input type="password" value="••••"/>	Proxy Password	<input type="password"/>
Domain Realm	<input type="text"/>	Local SIP Port	<input type="text" value="5060"/>
Phone Number	<input type="text" value="2219"/>	Register Expire Time	<input type="text" value="60"/> seconds
Detect Interval Time	<input type="text" value="60"/> seconds	User Agent	<input type="text" value="Voip Phone 1.0"/>
DTMF Mode	<input type="text" value="DTMF_RELAY"/> ▾	Server Type	<input type="text" value="common"/> ▾
RFC Protocol Edition	<input type="text" value="RFC3261"/> ▾	<input type="checkbox"/> Auto Detect Server	
<input checked="" type="checkbox"/> Enable Register		<input type="checkbox"/> Enable Pub Outbound Proxy	

Apply

Setting page of public SIP server.

Field	Description
<b>Register Server Addr</b>	Register address of public SIP server
<b>Register Server Port</b>	Register port of public SIP server
<b>Register Username</b>	Username of your SIP account (Always the same as the phone number)
<b>Register Password</b>	Password of your SIP account
<b>Proxy Server Addr</b>	IP address of proxy SIP server (SIP provider always use the same IP for register server and proxy server, in this case you don't need to configure the proxy server information)
<b>Proxy Server Port</b>	Signal port of SIP proxy
<b>Proxy Username</b>	Proxy server username
<b>Proxy Password</b>	Proxy server password
<b>Domain Realm</b>	SIP domain, enter the sip domain if any, otherwise IP PHONE will use the proxy server address as sip domain
<b>Local SIP port</b>	Local SIP register port, default 5060
<b>Phone Number</b>	Phone number of your SIP account
<b>Register Expire Time</b>	Register expire time, default is 600 seconds. IP PHONE will auto configure this expire time to the server recommended setting if it is different from the SIP server
<b>Detect Interval Time</b>	Co-work with the <i>Auto Detect Server</i> , if <i>Auto Detect Server</i> is enable, IP PHONE will periodically detect if the SIP server is available according this setting
<b>User Agent</b>	It will show IP Phone's information on Proxy Server

<b>DTMF Mode</b>	DTMF signal sending mode: support RFC2833, DTMF_RELAY (inband audio) and SIP info
<b>Server Type</b>	It could support different SIP Proxy providers
<b>RFC Protocol Edition</b>	Current IP PHONE SIP version. Set to RFC 2543 if the gate need to communicate to devices (such as CISCO5300) using the SIP 1.0. Default is RFC 3261
<b>Auto Detect server</b>	Co-work with <i>Server Auto Swap</i> and <i>Detect Interval Time</i> . Enable this option, IP PHONE will periodically detect whether the public SIP server is available, if the server is unavailable, the IP PHONE will switch to the back-up SIP sever, and continue detecting the public sip server. IP PHONE will switch back to the primary SIP server if the server is available again
<b>Enable Register</b>	Enable/Disable SIP register. IP PHONE won't sent register info to SIP server if disable register
<b>Enable Pub Outbound Proxy</b>	Enable/Disable Outbound Proxy

## DHCP Server

DHCP Service

DNS Relay

Name	Start IP	End IP	Lease Time	Netmask	Gateway	DNS
lan1	192.168.10.2	192.168.10.50	1440	255.255.255.0	192.168.10.1	192.168.10.1

Lease Table Name	<input type="text"/>	Lease Time	<input type="text"/> (minute)	<input type="button" value="Add"/>
Start IP	<input type="text"/>	End IP	<input type="text"/>	
Netmask	<input type="text"/>	Gateway	<input type="text"/>	
DNS	<input type="text"/>			
Lease Table Name	lan1 <input type="button" value="v"/>			<input type="button" value="Delete"/>

DHCP server manage page.

User may trace and modify DHCP server information in this page

Field	Description
<b>DNS Relay</b>	Enable DNS relay function
<b>Lease Table Name</b>	Lease table name
<b>Lease Time</b>	DHCP server lease time

<b>Start IP</b>	Start IP of lease table
<b>End IP</b>	End IP of lease table. Network device connecting to the IP PHONE LAN port can dynamic obtain the IP in the range between start IP and end IP
<b>Netmask</b>	Netmask of lease table
<b>Gateway</b>	Default gateway of lease table
<b>DNS</b>	Default DNS server of lease table

 **Notice:** This setting won't take effect unless you save the config and reboot the device

## NAT

**NAT Configuration**

<input checked="" type="checkbox"/> IPSec ALG	<input checked="" type="checkbox"/> FTP ALG
<input checked="" type="checkbox"/> PPTP ALG	

---

<b>Inside IP</b>	<b>Inside TCP Port</b>	<b>Outside TCP Port</b>
<b>Inside IP</b>	<b>Inside UDP Port</b>	<b>Outside UDP Port</b>

<b>Transfer Type</b>	TCP <input type="button" value="v"/>	<b>Outside Port</b>	<input type="text"/>
<b>Inside Ip</b>	<input type="text"/>	<b>Inside Port</b>	<input type="text"/>

---

**DMZ Table**

<b>Outside IP</b>		<b>Inside IP</b>	
<b>Outside IP</b>	<input type="text"/>	<b>Inside IP</b>	<input type="text"/> <input type="button" value="Add"/>
<b>Outside IP</b>	<input type="button" value="v"/>		<input type="button" value="Delete"/>

Advance NAT setting. Maximum 10 items for TCP and UDP port mapping.

Field	Description
<b>IPSec ALG</b>	Enable/Disable IPSec ALG
<b>FTP ALG</b>	Enable/Disable FTP ALG
<b>PPTP ALG</b>	Enable/Disable PPTP ALG
<b>Transfer Type</b>	Transfer type using port mappin

<b>Inside IP</b>	LAN device IP for port mapping
<b>Inside Port</b>	LAN device port for port mapping
<b>Outside Port</b>	WAN port for port mapping

Click [Add](#) to add new port mapping item and [Delete](#) to delete current port mapping item.

## Net Service

**Net Service**

<b>HTTP Port</b>	<input type="text" value="80"/>	<b>Telnet Port</b>	<input type="text" value="23"/>
<b>RTP Initial Port</b>	<input type="text" value="10000"/>	<b>RTP Port Quantity</b>	<input type="text" value="200"/>

If modify HTTP or Telnet port,you'd better set it more than 1024,then save and restart.

**DHCP Lease Table**

<b>Leased IP Address</b>	<b>Client hardware Address</b>
--------------------------	--------------------------------

Field	Description
<b>HTTP Port</b>	Configure HTTP transfer port, default is 80.User may change this port to enhance system's security. When this port is changed, please use <code>http://xxx.xxx.xxx.xxx:xxxx/</code> to reconnect.
<b>Telnet Port</b>	Configure telnet transfer port, default is 23
<b>RTP Initial Port</b>	RTP initial port
<b>RTP Port Quantity</b>	Maximum RTP port quantity, default is 200



**Notice:** Settings in this page won't take effect unless save and reboot the device.

If you need to change telnet port or HTTP port, please use the port greater than 1024, because ports under 1024 is system remain ports.

HTTP service if HTTP is set to 0.

## Firewall settings

## Firewall Configuration

in\_access enable
  out\_access enable

---

### Firewall Input Rule Table

Index	Deny/Permit	Protocol	Src Addr	Src Mask	Des Addr	Des Mask	Range	Port

### Firewall Output Rule Table

Index	Deny/Permit	Protocol	Src Addr	Src Mask	Des Addr	Des Mask	Range	Port

Input/Output <input type="button" value="Input"/>	Deny/Permit <input type="button" value="Deny"/>
Protocol Type <input type="button" value="UDP"/>	Port Range <input type="button" value="more than"/> <input style="width: 50px;" type="text"/>
Src Addr <input style="width: 100%;" type="text"/>	Des Addr <input style="width: 100%;" type="text"/>
Src Mask <input style="width: 100%;" type="text"/>	Des Mask <input style="width: 100%;" type="text"/>

Input/Output <input type="button" value="Input"/>	Index to be deleted <input style="width: 50px;" type="text"/>
---	---

Firewall setting page. User may set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices to access the internet.

Access list support two type limits: input\_access limit or output\_access limit. Each type support 10 items maximum.

IP PHONE firewall filter is base WAN port. So the source address or input destination address should be WAN port IP address.

Field	Description
<b>in_access enable</b>	Enable in_access rule
<b>out_access enable</b>	Enable out_access rule
<b>Input/Output</b>	Specify current adding rule is input rule or output rule
<b>Deny/Permit</b>	Specify current adding rule is deny rule or permit rule
<b>Protocol Type</b>	Protocol using in this rule: TCP/IP/ICMP/UDP
<b>Port Range</b>	Port range if this rule
<b>Src Addr</b>	source address. Can be single IP address or network address

<b>Dest Addr</b>	destination address. Can be IP address or network address
<b>Src Mask</b>	source address mask. Indicate the source is dedicate IP if set to 255.255.255.255. Otherwise is network ID
<b>Des Mask</b>	Destination address mask. Indicate the source is dedicate IP if set to 255.255.255.255. Otherwise is network ID

## QoS settings

**802.1p Configuration**

<input type="checkbox"/> VLAN Enable	VLAN ID	256
<input type="checkbox"/> DiffServ Enable	DiffServ Value	0x b8

IP PHONE IP phone implement QoS based on 802.1p, The QoS is used to mark the network communication priority in the data link/MAC sub-layer. IP Phone will sorted the packets using the QoS and sends it to the destination.

Field	Description
<b>VLAN Enable</b>	If enable the VLAN service, the second layer will realize separate voice, signal and data transmission. To realize separate voice and data transmission by dispose for IP precedence of ToS area of voice transmission. To reach upper layer switch or router have priority to transfer voice transmission. (The prerequisite is the upper layer switch or router have to identify ToS area.)
<b>VLAN ID</b>	Dispose VLAN ID is add a Tag header after realize enable the VLAN function. The realized voice packets transfer at the same VLAN. The prerequisite is it must the same as VLAN of upper switch. The value range are 1~4094.
<b>DiffServ Enable</b>	If enable the VLAN service, it indicates use DSCP mode to realize three layers QoS. This moment, the DSCP of SIP signals which between IP Phone and MGC. It will use Class Selector 5 (The value is 0xA0). And the DSCP of mediums information (In RTP packets) would be used the values of DiffServ Value field.
<b>DiffServ Value</b>	The value range are 00 ~ FF. (0x28, 0x30, 0x38, 0x48, 0x50, 0x58, 0x68, 0x70, 0x78, 0x88, 0x90, 0x98, 0xb8)

## Advance SIP settings



**Advance SIP Configuration**  
**Public[Unregistered]Private[Unregistered]**  
**STUN NAT Transverse[FALSE]**

STUN Server Addr	<input type="text"/>	STUN Server Port	<input type="text" value="3478"/>
Public Alter Register	<input type="text"/>	Public Alter Proxy	<input type="text"/>
Register Port	<input type="text" value="5060"/>	Proxy Port	<input type="text"/>
Register Username	<input type="text"/>	Proxy Username	<input type="text"/>
Register Password	<input type="text"/>	Proxy Password	<input type="text"/>
Private Register	<input type="text"/>	Private Proxy	<input type="text"/>
Register Port	<input type="text" value="5060"/>	Proxy Port	<input type="text"/>
Register Username	<input type="text"/>	Proxy Username	<input type="text"/>
Register Password	<input type="text"/>	Proxy Password	<input type="text"/>
Private Domain	<input type="text"/>	Expire Time	<input type="text" value="60"/> (seconds)
Private Number	<input type="text"/>	STUN Effect Time	<input type="text" value="50"/> (seconds)
Private User Agent	<input type="text" value="Voip Phone 1.0"/>	Private Server Type	<input type="text" value="common"/> ▼
<input type="checkbox"/> Enable Private Register		<input type="checkbox"/> Enable Private Outbound Proxy	
<input type="checkbox"/> Enable SIP Stun			

This page is used to set the private sip server, stun server, and back up sip server information.

**STUN Server setting:**

Field	Description
<b>STUN Server Addr</b>	Configure stun server address
<b>STUN Server Port</b>	Configure stun server port default 3478
<b>STUN Effect Time</b>	Stun detect NAT type circle, unit: minute
<b>Enable SIP STUN</b>	Enable/disable stun

**Public Alter Register:**

Public Alter Register	<input type="text"/>	Public Alter Proxy	<input type="text"/>
Register Port	<input type="text" value="5060"/>	Proxy Port	<input type="text"/>
Register Username	<input type="text"/>	Proxy Username	<input type="text"/>
Register Password	<input type="text"/>	Proxy Password	<input type="text"/>

Public Alter server provide redundancy for the public server, if the public server is unavailable, IP PHONE will use the alter server, and switch back to the public server when it is available. Account setting in public alter setting should be the same as the public server.

Please refer to [SIP Config](#) for the setting for how to set the public alter server.

User can register two sip servers:

Private Register	<input type="text"/>	Private Proxy	<input type="text"/>
Register Port	5060	Proxy Port	<input type="text"/>
Register Username	<input type="text"/>	Proxy Username	<input type="text"/>
Register Password	<input type="text"/>	Proxy Password	<input type="text"/>
Private Domain	<input type="text"/>	Expire Time	60 <input type="text"/> (seconds)
Private Number	<input type="text"/>	STUN Effect Time	50 <input type="text"/> (seconds)

Public sip server and private sip server. these two sip servers are independent from each other and running in the same time.

For how to configure private sip server. Please refer to [SIP\\_Config](#)

## Digital Map

Digital Map Configuration

End with "#"

Fixed Length

Time out  (3--30)

Digital Map Table

Rules:
8[3-8]xxxxx
89xxx
6567
78xxxT2
5[3,7,9]xxxxx

<input type="text"/>	<input type="button" value="Add"/>
<input type="text" value="8[3-8]xxxxx"/> <input type="button" value="v"/>	<input type="button" value="Delete"/>

Digit map is a set of rules to determine when the user has finished dialing.

IP Phone support below digital map:

Digital Map is based on some rules to judge when user end their dialing and send the number to the

server.

VIP-155PT support following digital map:

Field	Description
End With “#”	Use # as the end of dialing
Fixed Length	When the length of the dialing match, the call will be sent
Timeout	Specify the timeout of the last dial digit. The call will be sent after timeout

User Define digital map:

Field	Description
[ ]	Represents the range of digit, can be a range such as [1-4], or use comma such as [1,3,5], or use a list such as [234]
x	Represents any one digit between 0~9
Tn	Represents the last digit timeout. n represents the time from 0~9 second, it is necessary. Tn must be the last two digit in the entry. If Tn is not included in the entry, we use T0 as default, it means system will sent the number immediately if the number matches the entry.

Example:

Field	Description
[1-8]xxx	All number from 1000 to 89999 will be sent immediately
9xxxxxxx	8 digits numbers begin with 9 will be sent immediately
911	Number 911 will be sent will be immediately
99xT4	3 digits numbers begin with 99 with be sent after four seconds

## Call Service Settings

## Call Service

Hotline	<input type="text"/>		
Call Forward	<input checked="" type="radio"/> Off <input type="radio"/> Busy <input type="radio"/> No Answer <input type="radio"/> Always		
	Phone Number	Addr	Port <input type="text" value="5060"/>
<input type="checkbox"/> No Disturb	<input type="checkbox"/> Ban Outgoing		
<input checked="" type="checkbox"/> Enable Call Transfer	<input checked="" type="checkbox"/> Enable Call Waiting		
<input checked="" type="checkbox"/> Enable Three Way Call	<input checked="" type="checkbox"/> Accept Any Call		
<input type="checkbox"/> Auto Answer	<input type="checkbox"/> Enable Voice Record		
<input type="checkbox"/> User-Defined Voice	<input checked="" type="checkbox"/> Incoming Record Playing		
<input type="text" value="20"/> No Answer Time(seconds)			
<input type="button" value="Apply"/>			
<b>Black List</b>			
<input type="text"/>	<input type="button" value="Add"/>	<input type="button" value="v"/>	<input type="button" value="Delete"/>
<b>Limit List</b>			
<input type="text"/>	<input type="button" value="Add"/>	<input type="button" value="v"/>	<input type="button" value="Delete"/>

User configure the value add service such as hotline, call forward, call transfer, 3-way conference call .etc in this page

Field	Description
<b>Hotline</b>	Configure hotline number. IP PHONE immediately dials this number after hook-off if it is set
<b>Call Forward</b>	<p><b>Forward when busy:</b> select <i>Busy</i> in the <i>Call Forward</i> Field, and Key in the destination phone number in the <i>Forward Number</i>. If some one calls you when you having a call, the caller will be forwarded to the destination number.</p> <p><b>Forward no answer:</b> Select <i>No Answer</i> in the <i>Call Forward</i> Field, and Key in the destination phone number in the <i>Forward Number</i>, fill the time in the <i>No Answer Time</i>. If some one calls you and no one answer the caller during the <i>No Answer Time</i>, the call will be forward to the destination number.</p> <p><b>Forward Always:</b> Select <i>Always</i> in the <i>Call Forward</i> Field, and Key in the destination phone number in the <i>Forward Number</i>, then any one call this gateway will be forward to the destination number.</p>
<b>No Disturb</b>	DND, do not disturb, enable this option to refuse any calls

<b>Ban Outgoing</b>	Enable this to ban outgoing calls
<b>Enable Call Transfer</b>	<p>Check the <i>Enable Call Transfer</i>.</p> <p><b>Unattended transfer:</b> If A is the IP PHONE user, and B calls and talking with A through VoIP. A can <b>press FWD button</b> to hold the call with B, and then <b>enter C's number</b>. B will be transferred to C and can talk with C.</p> <p><b>Attended transfer:</b> If A is the IP PHONE user, and B calls and talking with A through VoIP. A can <b>press Hold button</b> to hold the call with B, and then <b>enter C's number</b> to talk will C. and press <b>Hold</b> to switch back to A, and then press <b>FWD key</b> , B will be transferred to C and can talk with C.</p>
<b>Enable Call Waiting</b>	Enable/disable Call Waiting
<b>Enable Three Way Call</b>	<p>Check Enable Three Way Call</p> <p>Assume A is the VIP-155PT user, and B calls and talking with A through VoIP. A can <b>press FWD button</b> to hold the call with B, then <b>enter *</b> and then <b>enter C's number</b> to talk with C, and then <b>press * button</b> again to make 3-way conference calls.</p>
<b>Accept Any Call</b>	If this option is disable, IP PHONE refuse the incoming call when the called number is different from IP PHONE's phone number.
<b>Auto Answer</b>	Enable/disable auto answer function
<b>Enable Voice Record</b>	Enable/disable answering machine function. Please refer to the bwloe descriptions for detail.
<b>User-defined Voice</b>	Use customized greeting message
<b>Incoming Record Playing</b>	Simultaneously play the message when recording
<b>No Answer Time</b>	No answer call forward time setting
<b>Black List</b>	Incoming call in these phone numbers will be refused
<b>Limit List</b>	Outgoing calls with these phone numbers will be refused

## Voice Record

VIP-155PT provides record function. With this function, user may record three VoIP message and one local message.

Field	Description
<b>Enable Voice Record</b>	Select " <b>Enable Voice Record</b> " to active answering machine, and config <b>No Answer Time</b> . If there is an incoming call and no one answer the call. After timeout, IP PHONE will auto answer this call and ask the caller to leave message.

<b>Incoming Record Playing</b>	Play the message when recording
<b>User-Defined Voice</b>	Use customizes greeting voice for answering machine

**Record local message:**

User may use local message to leave message to other local users.

Please refer the **Record** button function as below:

Record Function		
Level1	Level2	Description
Received	New	New message info
	Old	Old message info
	Record	Enable/disable answering machine
	Playing	Enable/disable Incoming Record Playing
Local	Play	Play local message
	Rec	Record local message
User define	Switch	Enable/disable customize greeting message
	Play	Play customize greeting message
	Rec	Record customize greeting message

**MMI Filter**

MMI filter is used to make access limit to IP PHONE IP phone.

When MMI filter is enable. Only IP address within the *start IP* and *end IP* can access IP PHONE IP phone.

**MMI Filter**

MMI Filter

Start IP  End IP

Start IP	<input style="width: 80%;" type="text"/>	End IP	<input style="width: 80%;" type="text"/>	<input type="button" value="Add"/>
Start IP to be deleted	<input type="button" value="v"/>			<input type="button" value="Delete"/>

**Audio Settings**

## DSP Configuration

Coding Rule	<input type="text" value="g729"/>	G729 Payload Length	<input type="text" value="20ms"/>
Signal Standard	<input type="text" value="China"/>	Handdown Time	<input type="text" value="200"/> ms
Input Volume	<input type="text" value="3"/> (1-9)	Output Volume	<input type="text" value="7"/> (1-9)
Handfree Volume	<input type="text" value="4"/> (1-9)	<input type="checkbox"/> VAD	

Field	Description
<b>CODEC</b>	select the prefer CODEC; support ulaw, alaw,G729 and G7231 5.3/6.3
<b>Signal Standard</b>	Signal standard for different area
<b>Input Volume</b>	Handset in volume
<b>Output Volume</b>	Handset out volume
<b>Handfree Volume</b>	Hand free volume
<b>Handdown Time</b>	hand down detect time
<b>G729 Payload Length</b>	G729 payload length
<b>VAD</b>	Enable/disable Voice Activity Detection

## Dial-Peer Settings

### Dial-Peer

Number	Destination	Port	Alias	Suffix	Del length
2T	255.255.255.255	5060	del	no suffix	1
3T	0.0.0.0	5060	del	no suffix	1
123	0.0.0.0	5060	all:886222199518	no suffix	0
0T	0.0.0.0	5060	rep:886	no suffix	1
179	192.168.1.179	5060	no alias	no suffix	0

VIP-155PT provide flexible dial rule, with different dial-rule configure, user can easily implement the following function:

----Replace, delete or add prefix of the dial number.

----Make direct IP to IP call

----Place the call to different servers according the prefix.

You can click “Add” to add a new dial rule. Below is the detail setting of the dial-rule:

Field	Description
<b>Phone Number</b>	The Number suit for this dial rule, can be set as full match or prefix match. Full match means that if the number user dialed is completely the same as this number, the call will use this dial-rule. Prefix match means that if prefix of the number that the user dials is the same as the prefix, the call will use this dial-rule, to distinguish from the full match case, you need to add “T” after the prefix number in the phone number setting
<b>Destination (optional)</b>	call destination, can be IP or domain. Default is 0.0.0.0, in this case the call will be routed to the Public SIP server. If you set the destination to 255.255.255.255, then the call will be routed to the private SIP server. Also you can key other address here to make direct IP calls
<b>Port (optional)</b>	Configure the port of the destination, default is 5060 in SIP and 1720 for H323
<b>Alias (optional)</b>	Set up the Alias. We support four Alias as below. Alias need to co-work with the <i>Del Length</i> : <ul style="list-style-type: none"><li>➤ add:xxx, add prefix to the phone number, can set to reduce the dial length.</li><li>➤ all: xxx, replace the phone number with the xxx, can use as speed dial function.</li><li>➤ del, delete the first N numbers. N is set in the <i>Del Length</i></li></ul> rep:xxx , replace the first N numbers. N is set in the <i>Del Length</i> . For Example: Use wants to place a call 8610-62281493, then you can set the <i>phone number</i> in the dial rule as 010T, and set the <i>Alias</i> as rep:8610, and set the <i>Del Length</i> to 3. Then all calls begin with 010 will be changed to 8610 xxxxxxxx.
<b>Suffix (optional)</b>	Configure suffix, show no suffix if not set

**Example:**



Number	Destination	Port	Alias	Suffix	Del length
2T	255.255.255.255	5060	del	no suffix	1
3T	0.0.0.0	5060	del	no suffix	1
123	0.0.0.0	5060	all:886222199518	no suffix	0
0T	0.0.0.0	5060	rep:886	no suffix	1
179	192.168.1.179	5060	no alias	no suffix	0

Field	Description
<b>2T rule</b>	If the call starts with 2, the first 2 will be deleted, and the rest number will be sent to private SIP server.
<b>3T rule</b>	If the call starts with 3, the first 3 will be deleted, and the rest number will be sent to public SIP server.
<b>123 rule</b>	Dial 123 and will send 8675583018049 to your server. Used as speed dial function
<b>0T rule</b>	If the call starts with 0, the first 0 will be replaced by 86. Means that if you dial 075583018049 and AG-188 will send 8675583018049 to your server.
<b>179 rule</b>	When you dial 179, the call will be sent to 192.168.1.179, suitable for LAN application without setting up a SIP server.

## Config Manage

Field	Description
Save Config	Save current settings
Clear Config	Restore to default settings



Notice: clear config in admin mode, all settings restore to factory default; clear config in guest modem, all settings except sip and advanced sip restore to factory default.

## WEB Update

Update IP phone's settings or firmware. Firmware file is .z extension when config file is .cfg extension, IP PHONE will auto select config update or firmware update according to the extension.

## Web Update

Select file   (\*.z or \*.cfg)

The device will reboot when update finish!

## FTP/TFTP Update

### Backup:

Back up configure file to your FTP/TFTP server.

## FTP/TFTP Download

Server	<input type="text" value="192.168.1.53"/>
Username	<input type="text" value="admin"/>
Password	<input type="password" value="..."/>
File name	<input type="text" value="Configuration.cfg"/>
Type	<input type="text" value="Config file export"/> ▼
Porotocol	<input type="text" value="FTP"/> ▼

\* configure use .cfg extension.

### Auto update:

IP PHONE IP phone support FTP and TFTP auto update. The gateway will auto obtain the configure file from your update server if configured. To obtain the original configure file, you can use the FTP/TFTP back up as describe above. Configure file using module structure, user may remain the concerned modules and remove other modules. Put the configure file in the root directory of update serve when finish editing.

### Auto Update Server Configuration

Server Address	<input type="text" value="192.168.1.53"/>
Username	<input type="text" value="admin"/>
Password	<input type="password" value="..."/>
config File name	<input type="text" value="Configuration.cfg"/>
digital map File name	<input type="text" value="digitalmap"/>
Protocol Type	<input type="button" value="FTP"/> ▼

Configure file version was in the <<VOIP CONFIG FILE>> and <GLOBLE CONFIG MODULE> ConfFile Version

**Example:**

Gateway original version is:

<<VOIP CONFIG FILE>>Version:1.0000  
 <GLOBLE CONFIG MODULE> ConfFile Version : 6

User may edit the configure file version to:

<<VOIP CONFIG FILE>>Version:1.0007  
 <GLOBLE CONFIG MODULE> ConfFile Version : 7

## Account Manage

Set web access account or keypad password of IP PHONE.

### Account Configuration

Keypad password

---

User Name	User Level
admin	Root
guest	General

▼

## Phone Book

User may set contacts in this page, and the contacts will be saved in the memory. Then using the Pbook, Vol+,Vol-,Menu/OK and Exit keys to choose your friend in the contacts and then press # to call out.

Index	Name	Number	Address
-------	------	--------	---------

Add Delete Modify ▾

## Syslog Config

Enable Syslog

Apply

Server IP	0.0.0.0
Server Port	514

Apply

Field	Description
Enable Syslog	Enable syslog function.
Server IP	VIP-155PT will automatic send the system logs to define server. Fill in the server IP address.
Server Port	Fill in the transmission port.

## Time Set

VIP-155PT could support SNTP timeset, type in SNTP Server address, Timezone and timeout files.

And click “**select sntp**” to enable SNTP function.

If hasn't click “**select sntp**”, it also could set up time by manual.

**Time Configuration**

SNTP Timeset	
server	<input type="text" value="207.46.130.100"/>
timezone	<input type="text" value="(GMT+08:00)Taipei"/> <input type="button" value="v"/>
timeout	<input type="text" value="60"/> (seconds)
<input checked="" type="checkbox"/> select sntp	

Manual Timeset	
year	<input type="text"/>
months	<input type="text"/>
day	<input type="text"/>
hour	<input type="text"/>
minute	<input type="text"/>

**Reboot**

Reboot IP phone, some setting needs to reboot to make it works. Please always save config before reboot, otherwise the setting will return to previous setting.

## Chapter 4

# Keypad Configurations

### Keypad Function

User can configure IP PHONE through its keypad. List below is the keypad function

Keypad	Mode	Function/Display
Idle mode	----	show current time
Sysinfo	Idle mode	circularly show phone number,wan ip, gateway info
Menu/OK	Idle mode	enter config mode, default password 123
	config mode	confirm or enter sub-menu
Exit	config mode	exit
Up	Calling mode	volume up (Max:9)
	config mode	Page up
Down	Calling mode	volume down (Min:1)
	config mode	Page down
Del	Calling mode	Delete digits
	config mode	Delete digits
Mute	Calling mode	Mute
Out call	Idle mode	Outgoing call menu
In call	Idle mode	Incoming call menu
Record	Idle mode	Enter record menu, usage refer <a href="#">FAQ</a>
Pbook	Idle mode	Enter Phone book set up
Handfree	Calling mode	Handfree
0 - 9	Calling mode	Digits 0~9
	config mode	Hit quickly to switch between numeric or alphabetic
*	Calling mode	Use in <a href="#">3-way conference call</a> .
	config mode	Use as "." In the ip address setting

#	Calling mode	Use as end key of dialing or the dial number
Hold	Calling mode	Hold, detail refer <a href="#">value add service</a>
FWD	Calling mode	Transfer, detail refer <a href="#">value add service</a>
Redial	Calling mode	Redial key
Send	Calling mode	call key
No.1~No.9	Idle mode	Speed dial key

## Keypad Menu

User may use **SET**, **Menu/ok**, **Exit**, **Vol+**, **Vol-** to config IP PHONE detail setting. Press **Menu/ok** to enter config mode, and the default password is **123**.

Below list the keypad menu of IP PHONE

IP PHONE Keypad Menu				
Level 1	Level 2	Level 3	Level 4	
Network	LAN	IP		
		Netmask		
		DHCP Server		
		NAT	Switch	
			FTPalg	
			IPSec alg	
			PPTPalg	
	Bridge Mode			
	WAN	Status		
		Static Net	1. IP	
			2. NetMask	
			3. Gateway	
			4. DNS	
			5. DNS2	
PPPoE		User name		
	Password			
QoS				
Call Feature	Phone-number	Public SIP		
		Private SIP		
	Limit-List	Current		
		ADD		
		DEL		
	Black-List	Current		
		ADD		

		DEL		
	FastCall			
	Three Call			
	Call-Transfer			
	Call-Waiting			
	Call-Forward	Condition		
		SIP	Transfer Num	
			Transfer IP	
			Port	
	Dial-Rule	End With #		
		Fixed Length	Switch	
			Length	
SIP	Reg Status	Public Reg		
		Private Reg		
	Reg Switch	Public		
		Private		
	Server	Private	Register	
			Proxy	
	Domain	Public		
		Private		
	User Agent	Public		
		Private		
	Detect-server			
	Dtmf-mode			
	Interval-time			
	Swap-server			
	RFC-version			
	Signal-Port			
	Stun	Switch		
		Addr		
		Port		
Effect Time				
DSP	Codec			
	Handdown-time			
	Dtmf-Volume			
	Input-volume			
	Output-Volume			
System	Save			
	Reboot			



	Set Default	
Other Setting	Syslog	Switch
		Server-IP
		Server-Port

# 5

## Chapter 5 Telnet Console

### Introduce

#### Basic Structure

User may use telnet command to access and manage IP phone.

IP PHONE adopts tree structure for telnet. Every node contains its sub-nodes or local command. User can type “help” or “?” whenever to see sub-nodes and all local command under current node.

Besides local command, there are some global commands can be used in each node.

#### Basic command

**Logout:** exit telnet mode.

**Write:** save current settings.

Type sub-nodes name in current node to switch to sub-node.

Type “!” or “exit” in current node to return to parent-node.

Type “help” or “?” can see all sub-nodes and all local command under current node, every help item has comments such as <command> or <node> to distinguish sub-nodes and local command. Type “help” or “?” in command can see all parameters using in this command.

When typing node name or command, user no need to key the full name, use **TAB** button will make it more efficient.

There are two types in command parameters: **optional** and **required**. “required” parameter use “-” as prefix and “optional” use “\_” as prefix. User may type “-” or “\_” then press **TAB** button for complementarily.

## Global Command

Global command is available under all nodes, IP PHONE support following commands:

Command	Function	Example
chinese	Set to Chinese UI	#chinese
clear	Clear telnet screen	#clear
english	Set to English UI	#english
exit	Return to parent-node	#exit
help	1 . Show help info 2 . Show sub-nodes and local command	1 . #help ping 2 . #help
history	Show command history	#history
logout	Exit	#logout
ping	Ping command, use to check network,	#ping www.google.com
tree	Print tree structure of current command	#tree
who	Show current user	#who
write	Save setting to flash	#write

## Tree Structure

### account

path: <account>#

[stop]start Syslog

---syslog [no] start

Configure Syslog server address and port

---syslog server -ip x.x.x.x \_port xxx

**Example:** #<config-account-syslog>#server

---ip 202.112.20.10

Show syslog settings

---syslog show

Show all account settings

---show

### config

#### ➤ accesslist firewall config

path: <config-accesslist>#

add firewall rule

---entry -I/O xxx -P/D xxx -proto xxx -srcaddr

x.x.x.x -srcmask x.x.x.x -desaddr x.x.x.x -desmask x.x.x.x -portrange xxx -portnum xxx

**Example:**<config-accesslist>#entry -I/O input -P/D deny -proto udp -straddr 202.112.10.1 -srcmask 255.255.255.0 -desaddr 210.25.132.1 -desmask 255.255.255.0 -portrange neq -portnum 5060

delete firewall rule ---no entry -l/O xxx -index xxx

**Example :** <config-accesslist>#no entry -l/O input -index 1

Show firewall settings ---show

[disable] enable input filter ---[no]in-access

[disable] enable output filter ---[no]out-access

### ➤ **DHCP**

path: <config-dhcp>#

add DHCP rule ---entry -name xxx -startip x.x.x.x -endip

x.x.x.x -netmask x.x.x.x -gateway x.x.x.x -dnsserver x.x.x.x \_time xxx

**Example:** <config-dhcp>#entry -name lan2004 -startip 192.168.1.2 -endip 192.168.1.254 -netmask 255.255.255.0 -gateway 192.168.1.1 -dnsserver 192.168.10.18

delete DHCP rule ---no entry -name xxx

**Example:** <config-dhcp>#no entry -name lan2004

Show DHCP settings ---show

[disable]enable DNS-relay ---[no]dns-relay

### ➤ **dialrule**

path: <config-dialrule>#

[disable] enable End with # ---[no]endchar

Set end with fix length ---fixlen xxx

Disable end with fix length ---no fixlen

Set timeout to send ---timeout-send xxx

Disable timeout to send ---no timeout-send

Add digital map ---entry -prefix xxx -length xxx

**Example:** <config-dialrule>#entry -prefix 010 -length 11

Delete digital map rule ---no entry -prefix xxx

**Example:** <config-dialrule>#no entry -prefix 010

Show current digital map ---show

### ➤ **LAN interface settings**

path: <config-interface-fastethernet-lan>#

[disable]enable bridge mode ---[no]bridgemode

[disable]enable DHCP service ---[no]dhcp-server

[disable]enable NAT ---[no]nat

Show current DHCP rules ---dhcpshow

Show LAN port IP address	---ipshow
Show NAT info	---natshow
Change LAN port IP address	---ip --addr x.x.x.x --mask x.x.x.x

**Example:**<config-interface-fastethernet-lan>#ip --addr 192.168.1.10 --mask 255.255.255.0

➤ **WAN interface settings**

path: <config-interface-fastethernet-wan>#

[disable]enable dhcp client	---[no]dhcp
[disable]enable pppoe	---[no]pppoe
[disable]enable QOS	---[no]qos
Set default gateway IP	---gateway x.x.x.x
Clear default gateway IP	---no gateway
Set WAN port IP address	---ip --address x.x.x.x --mask x.x.x.x

**Example:**<config-interface-fastethernet-wan>#ip --addr 202.112.241.100 --mask 255.255.255.0

You need to reconnect if the WAN port has been changed.

Show WAN port settings	---show
------------------------	---------

➤ **MMI Filter**

path: <config-mmifilter>#

add filter rule	---entry --start x.x.x.x --end x.x.x.x
-----------------	--

**Example:**<config-mmifilter>#entry --start 202.112.20.1 --end 202.112.20.255

Delete filter rule	---no entry --start x.x.x.x
--------------------	-----------------------------

**Example:**<config-mmifilter>#no entry --start 202.112.20.1

Show filter rule	---show
------------------	---------

[disable]enable MMI filter	---[no]start-filter
----------------------------	---------------------

➤ **NAT settings**

path: <config-nat>#

[disable]enable ftp alg	---[no]ftpalg
[disable]enable ipsec alg	---[no]ipsecalg
[disable]enable pptp alg	---[no]pptpalg
Add TCP mapping rule	---tcp-entry --ip x.x.x.x --lanport xxx --wanport xxx

**Example:**<config-nat>#tcp-entry -ip 192.168.1.5 -lanport 1720 -wanport 1000

Delete TCP mapping rule ---no entry -ip x.x.x.x -lanport xxx -wanport xxx

**Example:**<config-nat>#no tcp-entry -ip 192.168.1.5 -lanport 5060 -wanport 1000

Add UDP mapping rule ---udp-entry -ip x.x.x.x -lanport xxx -wanport xxx

Delete UDP mapping rule ---no udp-entry -ip x.x.x.x -lanport xxx -wanport xxx

Show NAT info ---show

## ➤ **Netservice**

path: <config-netservice>#

Set DNS address ---dns -ip x.x.x.x \_domain xxx

**Example:**<config-netservice>#dns -ip 202.112.10.36 \_domain voip.com

Set alternate DNS address ---alterdns -ip x.x.x.x \_domain xxx

Set hostname ---hostname xxx

Set http access port ---http-port xxx

Show http access setting ---http-port

Set telnet access port ---telnet-port xxx

Show telnet access port ---telnet-port

Set RTP initial port and quantity ---media-port -startport xxx -number xxxx

**Example:**<config-netservice>#media-port -startport 10000 -number 200

Add route rule ---route -gateway x.x.x.x -addr x.x.x.x -mask x.x.x.x

**Example:**Arcihfone<config-netservice>#route -gateway 202.112.10.1 -addr 202.112.210.1 -mask 255.255.255.0

Delete route rule ---no route -gateway x.x.x.x -addr x.x.x.x -mask x.x.x.x

Show route info ---route

Show netservice info ---show

## ➤ **Dial-peer settings**

path: <config-pbook>#

[disable]enable calling through GK and proxy ---[no]enableGKandProxy

Add number-IP bond entry ---entry -number xxx -ip x.x.x.x -protocol xxx

**Example:**<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip

Add number-IP bond and add prefix to the dial number

---entry -number xxx -ip x.x.x.x -protocol xxx \_add xxx

**Example:**<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip \_add 123(dial 100 and will send 123100 according this rule)

Add number-IP bond and replace the destination with another number

---entry -number xxx -ip x.x.x.x -protocol xxx \_all xxx

**Example:**<config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip \_all 123( user dial 100 and gateway will sent 100 instead)

Add number-IP bond and delete the prefix of the destination number

---entry -number xxx -ip x.x.x.x -protocol xxx \_del xxx

**Example:**<config-pbook>#entry -number 1234 -ip 202.112.20.100 -protocol sip \_del 2 (dial 1234 will send 34 instead)

Add number-IP bond and replace the prefix with another number

---entry -number xxx -ip x.x.x.x -protocol xxx \_rep xxx \_length xxx

**Example:**<config-pbook>#entry -number 1234 -ip 202.112.20.100 -protocol sip \_rep 567 \_length 2(dial 1234 will send 56734)

Delete dial-peer entry    ---no entry -number xxx

Show current dial-peer rules    ---show

Set default voip protocol    ---default-protocol xxx

### ➤ **Port settings**

path: <config-port># 或 <config-port X>#

set accecp relay mode    ---accept-relay xxx

set callerid mode    ---callerid xxx

disable callerid    ---no callerid

config call forward    ---callforward -conditon xxx -number xxx -ip xxx -port xxx -protocol xxx

**Example:**<config-port 0>#callforward -condition busy -number 100 -ip 202.112.10.100 -port 5060 -protocol sip

Disable call forward    ---no callforward

[disable]enable call transfer    ---[no]calltransfer

[disable]enable call waiting    ---[no]callwaiting

Set prefer codec	---codec xxx
Set DTMF gain	---dtmfvolume xxx
Set black list	---in-limit xxx
Show black list	---in-limit
Set input volume	---input xxx
Set outgoing limit list	---out-limit xxx
Show outgoing limit list	---out-limit
Set output volume	---output xxx
[disable]enable outgoing limit	---[no]shutdown out
[disable]enable black list	---[no]shutdown in
[disable]enable outgoing limit and black list	---[no]shutdown
[disable]enable 3-way conference	---[no]threetalk
Show port settings	---show

➤ **PPPoE settings**

path: <config-pppoe>#

PPPoE account settings	---auth -user xxx -password xxx
------------------------	---------------------------------

**Example:**<config-pppoe>#auth -user aaa -password 123456

[disable]enable service settings	---[no]service xxx
----------------------------------	--------------------

Show pppoe settings	---show
---------------------	---------

➤ **QoS settings**

path: <config-qos>#

[delete]add QoS table entry	--- [no]entry -addr x.x.x.x -mask x.x.x.x
-----------------------------	---

**Example:**<config-qos>#entry -addr 202.112.10.1 -mask 255.255.255.0

[disable]enable include QoS table	---[no]include
-----------------------------------	----------------

Show QoS settings	---show
-------------------	---------

➤ **SIP settings**

path: <config-sip>#

[disable]enable registration	---[no] register
------------------------------	------------------

[disable]enable auto detect server	---[no] detect-server
------------------------------------	-----------------------

Set sip domain	---default-domain xxx
----------------	-----------------------

Set DTMF mode	---dtmf-mode xxx
---------------	------------------

Set auto detect interval time	---interval-time xxx
-------------------------------	----------------------

Set RFC edition	---rfc-version xxx
-----------------	--------------------

[disable]enable auto swap server	--- [no]swap-server
----------------------------------	---------------------

Set sip account	---number-password -number xxx -password xxx
-----------------	--



Set local SIP signal port --- signalport xxx  
Set proxy server ---server proxy -ip x.x.x.x \_port xxx \_user xxx \_password xxx

**Example:**<config-sip-server># proxy ip 210.25.23.22 \_port 5060 \_user aaa \_password 123456

Set register server info ---server register -ip x.x.x.x \_port xxx -user xxx  
\_password xxx  
Set alter proxy info ---alter-server proxy -ip x.x.x.x \_port xxx \_user xxx  
\_password xxx  
Set alter server info ---alter-server register -ip x.x.x.x \_port xxx \_user xxx  
\_password xxx  
[disable]enable stun server ---stun [no]enable  
Set stun detecting interval time ---stun interval-time xxx  
Set stun server ip and port ---stun -ip x.x.x.x -port xxx  
Show current sip info ---show

### ➤ User management

path: <config-user>#

Change user right. ---access -user xxx -access xxx

**Example:**<config-user>#access -user aaa -access 7

Change user password ---password -user xxx  
Add new user ---entry -user xxx -access xxx

**Example:**<config-user>#entry -user abc -access 7

Delete user entry ---no entry -user xxx  
Show current sip info ---show

## Debug (Level 0~7)

path: <debug>#

show debug setting ---show  
[disable]enable debug all modules ---[no] all xxx  
[disable]enable debug app module ---[no] app xxx  
[disable]enable debug cdr module ---[no] cdr xxx  
[disable]enable debug sip module ---[no] sip xxx  
[disable]enable debug h323 module ---[no] h323 xxx  
[disable]enable debug tel module ---[no] tel xxx  
[disable]enable debug dsp module ---[no] dsp xxx

## Download configure to flash

usage: #download tftp -ip x.x.x.x -file xxx

#download ftp -user xxx -password xxx -ip x.x.x.x -file xxx

**Example:** #download ftp -user abc -password 123 -ip 202.112.20.15 -file AG188.cfg

## Password

usage: #password

Enter new password:xxx

Confirm new password:xxx

## Reload

usage: #reload

Reboot system

## Show system running info

➤ accesslist

path: <show>#

show: accesslist (firewall) settings

**Example:** #<show>#accesslist

➤ basic

path: <show>#

show network status

**Example:** #<show>#basic

➤ call

path: <show>#

show current call info

**Example:** #<show>#call active

➤ capability

path: <show>#

show CODEC capability

**Example:** #<show>#capability

➤ debugging

path: <show>#

show debug info

**Example:** #<show>#debugging

➤ dhcp-server

path: <show>#

show LAN status and DHCP server info

**Example:** #<show># dhcp-server

➤ dial-rule

path: <show>#

show digital-map info

**Example:** #<show># dial-rule

➤ interface

path: <show>#

show LAN info

**Example:** #<show>#interface fastethernet lan

show WAN info

**Example:** #<show>#interface fastethernet wan

➤ ip

path: <show>#

show arp table info

**Example:** #<show>#ip arp

Show DNS server info

**Example:** #<show>#ip dns

Show netstate info

**Example:** #<show>#ip netstat

Show route info

**Example:** #<show>#ip route

Show icmp packets Stat.

**Example:** #<show>#ip icmp

Show igmp packets Stat.

**Example:** #<show>#ip igmp

Show ip packets Stat.

**Example:** #<show>#ip ip

Show RTP packets Stat.

**Example:** #<show>#ip rtp

Show TCP packets Stat.

**Example:** #<show>#ip tcp

Show UDP packets Stat.

**Example:** #<show>#ip udp

➤ memory

path: <show>#

show IP phone memory

**Example:** #<show>#memory

➤ nat

path: <show>#

show NAT information

**Example:** #<show>#nat

➤ port

path: <show>#

show caller-ID info

**Example:** #<show>#port callerID

show dsp info

**Example:** #<show>#port dsp

show hotline info

**Example:** #<show>#port hotline

show black list info

**Example:** #<show>#port in-limit

show outgoing limit info

**Example:** #<show>#port out-limit

show current phone number

**Example:** #<show>#port number

show current port status

**Example:** #<show>#port status

➤ PPPoE

path: <show>#

show PPPoE info

**Example:** #<show># pppoe

➤ qos

path: <show>#

show QoS table info

**Example:** #<show>#qos

➤ sip

path: <show>#

show sip info

**Example:** #<show>#sip

➤ udptunnel

path: <show>#

show UDP tunnel info

**Example:** #<show># udptunnel

➤ uptime

path: <show>#

show running time

**Example:** #<show># uptime

➤ version

path: <show>#

show IP phone version

**Example:** #<show># version

## Telnet and logout

Usage: #telnet -target -port

Login:xxx

```
Password:xxx
#
#logout
```

## Telnet and logout

```
path: <time>#
```

```
--manualset -year xxx -month xxx -day xxx -hour xxx -minute xxx -second xxx
```

```
Example:<time>#manulset -year 2004 -month 10 -day 1 -hour 8 -minitute 30 -second 0
```

[disable]enable SNTP server	---sntp [no] start
Set SNTP IP address	---sntp server x.x.x.x
Set SNTP server timeout	---sntp timeout xxx
Set timezone (-12~+12)	---sntp zone xxx
Show SNTP info	---sntp show
Show current time	---print

## Tracert trace network path info

```
usage: #tracert -host
```

```
Example:#tracert 3 HYPERLINK "http://www.google.com" 4www.google.com5
```

## Update IP Phone

```
usage: # update ftp -user xxx -password xxx -ip x.x.x.x -file xxx
```

```
# update tftp -ip x.x.x.x -file xxx
```

```
Example:# update ftp -user abc -password 123 -ip 202.112.20.15 -file AG188.dif
```

## Upload configure file

```
usage: # upload ftp -user xxx -password xxx -ip x.x.x.x -file xxx
```

```
# upload tftp -ip x.x.x.x -file xxx
```

## Network Diagnosis

There are some telnet commands for checking your network. Now Listing below for your information

Command	Function	Example
---------	----------	---------

ping	Check if the destination is accessible	#ping www.google.com
tracert	Show network path info	#tracert <a href="http://www.google.com">www.google.com</a>
show basic	Show network settings	#show basic
show ip route	Show route table	#show ip route
show ip arp	Show arp table	#show ip arp
show ip netstat	Netstat programe	#show ip netstat
telnet	Telnet to another device	#telnet 192.168.1.2

## Reset to factory default

#setdefault clear IP phone settings expect network part

#setdefault all clear all settings.

## POTS Mode (Safe mode)

```

C:\ Telnet 192.168.10.1
      Uoip  Phone  System
      Post  Version:2.0
      Date:Mar  6 2006  10:49:37

  1  ----  Show Mac Address
  2  ----  FTP Update Image
  3  ----  Clear Configuration
  4  ----  Exit and Reboot

```

VIP-155PT provide safe mode. When there is booting problem because of setting problem or firmware problem. User can restore the factory setting or upgrade to a new firmware to solve this problem.

How to enter safe mode?

There will be a schedule bar in the VIP-155PT booting procedure, press # key within the first 5 seconds, then the phone will go to POST mode. It has a default ip 192.168.10.1 in POST mode. User may change the PC's IP address to 192.168.10.xx and telnet to 192.168.10.1 to access the VIP-155PT in POST mode.

User can accord the guide in post mode to clear the settings or upgrade the firmware.

# Appendix A

## FAQ

<b>Q1: How many servers may VIP-155PT register simultaneously?</b>
<b>A1:</b> VIP-155PT is able to register two SIP servers simultaneously, and redundancy servers. User can configure the dial peer to route calls between these servers.
<b>Q2: Why the settings vanish after reboot?</b>
<b>A2:</b> Please go to Config Manage→Save Config to save your setting always.
<b>Q3: How to use speed dial function?</b>
<b>A3:</b> There are 9 speed dial keys in the IP PHONE panel, Usage: Set speed dial number: press the speed key and enter the speed dial number and then press Menu/OK key to save the setting. Pick up the handset and press the speed dial key to dial the pre-define number.
<b>Q4: How to use set the IP type via keypad?</b>
<b>A4:</b> In the idle mode, user may use the keypad to set the IP type as the below procedure: Keep pressing the button 1 for changing to static mode. Keep pressing the button 2 for changing to DHCP mode. Keep pressing the button 3 for changing to PPPoE mode.



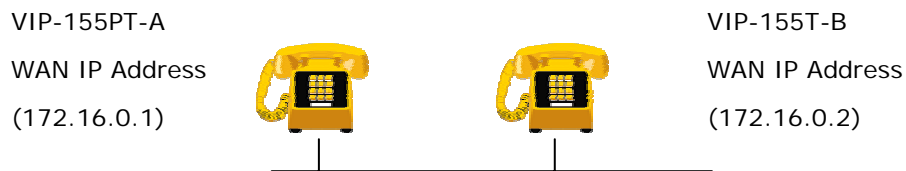
# Appendix B

## Voice communications

There are several ways to make calls to desired destination in IP Phone. In this section, we'll lead you step by step to establish your first voice communication via keypad and web browsers operations.

### Peer to Peer (P2P) Mode

**Step 1:** Assuming there are two VIP-155PT in the network the IP address are 172.16.0.1 and 172.16.0.2



**Step 2:** Execute your web browser, and insert the IP address (**172.16.0.1**) of the VIP-155PT-A in the address bar. After log on machine, browse to “**Dial-peer**” configuration item:

Number	Destination	Port	Alias	Suffix	Del length
--------	-------------	------	-------	--------	------------

Add Delete Modify

**Step 3:** Press “Add” button and fill in the below parameter, be sure to click the “**Submit**” button to apply settings. Browsing to “**Config Manage**” → “**Save Config**” configuration item and press “**Save**” button to save the configuration.

**Dial-Peer**

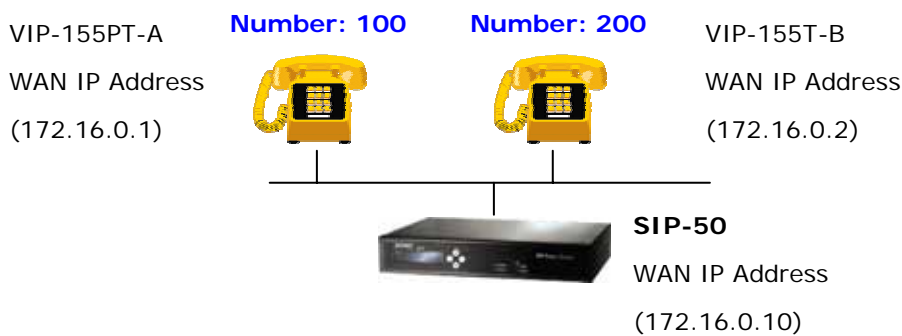
Number	Destination	Port	Alias	Suffix	Del length
<input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Modify"/> <input type="button" value="▼"/>					
Phone Number	<input type="text" value="2"/>	Destination (optional)	<input type="text" value="172.16.0.2"/>	Port(optional)	<input type="text" value="5060"/>
Alias(optional)	<input type="text"/>	Suffix(optional)	<input type="text"/>	Delete Length (optional)	<input type="text"/>
<input type="button" value="Return"/> <input type="button" value="Submit"/>					

**Step 4:** Pick up handset or press "Handfree" key from keypad of VIP-155PT-A and dial "2#". Then the phone of VIP-155PT-B should ring. You can do the same thing to the VIP-155PT-B.

**i Hint**

- If the IP address of the remote calling party is known, you may directly make calls by preset number via its IP address and end with an "#".
- If the IP phones are installed behind a NAT/firewall/IP sharing device, please make sure the NAT device support SIP applications before making calls

**Proxy Mode**



**SETP 1:**

Please browse machine “VoIP” → “SIP Config” menu, and enable the “Enable Register” check box. Insert IP address of the remote calling party in the “Register Server Addr” field. Sample configuration screen is shown below:

**SIP[Registered] Configuration**

Register Server Addr	<input type="text" value="172.16.0.10"/>	Proxy Server Addr	<input type="text"/>
Register Server Port	<input type="text" value="5060"/>	Proxy Server Port	<input type="text"/>
Register Username	<input type="text" value="100"/>	Proxy Username	<input type="text"/>
Register Password	<input type="password" value="..."/>	Proxy Password	<input type="password"/>
Domain Realm	<input type="text"/>	Local SIP Port	<input type="text" value="5060"/>
Phone Number	<input type="text" value="100"/>	Register Expire Time	<input type="text" value="60"/> seconds
Detect Interval Time	<input type="text" value="60"/> seconds	User Agent	<input type="text" value="Voip Phone 1.0"/>
DTMF Mode	<input type="text" value="DTMF_RELAY"/> ▼	Server Type	<input type="text" value="common"/> ▼
RFC Protocol Edition	<input type="text" value="RFC3261"/> ▼	<input type="checkbox"/> Auto Detect Server	
<input checked="" type="checkbox"/> Enable Register		<input type="checkbox"/> Enable Pub Outbound Proxy	

After these configurations, be sure to click the “Apply” button to apply settings.

**STEP 2:**

Browsing to “Dial-peer” configuration item, press “Add” button and fill in the below parameter.

**Dial-Peer**

Number	Destination	Port	Alias	Suffix	Del length
<input type="button" value="Add"/> <input type="button" value="Delete"/> <input type="button" value="Modify"/> <input type="button" value="▼"/>					
Phone Number	<input type="text" value="2T"/>	Destination (optional)	<input type="text" value="0.0.0.0"/>	Port(optional)	<input type="text" value="5060"/>
Alias(optional)	<input type="text" value="del"/>	Suffix(optional)	<input type="text"/>	Delete Length (optional)	<input type="text" value="1"/>
<input type="button" value="Return"/> <input type="button" value="Submit"/>					

After these configurations, be sure to click the “Apply” button to apply settings.

**STEP 3:**

Browsing to “**Config Manage**” → “**Save Config**” configuration item and press “**Save**” button to save the configuration. Browsing to “**System Manage**” → “**Reboot**” menu and press “**Reboot**” button reboot the machine to make the settings effective. After rebooting, the unit will register to SIP-50, the LCD screen will show below:

VOIP PHONE SEP 20 13 12:30
-------------------------------

**STEP 4:**

At this moment, you may pick up the handset and dial “200” to connect with extension 200 of VIP-155PT-B to start the voice communications.

# Appendix C

## VIP-155PT series Specifications

Product	Power over Ethernet SIP IP Phone
Model	VIP-155PT
<b>Hardware</b>	
WAN	1 x 10/100Mbps RJ-45 port Power Over Ethernet 802.3af compliant at PT model
LAN	1 x 10/100Mbps RJ-45 port
LCD display	2 x 16 characters
Speaker	8 Ohm/0.2 Watt speaker for speakerphone operation
<b>Protocols and Standard</b>	
Standard	SIP 2.0 (RFC3261), SIP digest authentication (MD5)
Voice codec	G.723.1 (6.3k/5.3k), G.729, G.711 (a-law/u-law)
NAT Traversal	Outbound Proxy, STUN
Voice Standard	Voice activity detection (VAD) Comfort noise generation (CNG) Dynamic Jitter Buffer
Supplementary services	Immediate (unconditional) call forwarding Busy call forwarding No answer calls forwarding Calls hold/transferring. Answer Machine 3-Way conference calls
Call history	Incoming call Outgoing call Missed (not accepted) call history Voice Record
Protocols	TCP/IP, UDP/RTP/RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP, FTP, PPP, PPPoE
<b>Network and Configuration</b>	
Access Mode	Static IP, PPPoE, DHCP
Management	Web, Keypad, Telnet
Dimension (W x D x H)	200 mm x 184 mm x 60 mm
Operating Environment	0~40 degree C, 10~90% humidity
Power Requirement	12V DC (802.3af 48VDC in line power)
EMC/EMI	CE, FCC Class B